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BREEDING BIRD FORAYS IN TENNESSEE'S UPPER CUMBERLAND REGION: PART II (SMITH, JACKSON, OVERTON AND FENTRESS COUNTIES)

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Starting in 2008 the senior author (SJS) initiated a series of breeding bird forays to cover 16 counties in the Upper Cumberland region of Tennessee as well as 10 nearby counties in Kentucky. This effort was intended to supplement prior breeding bird foray work and especially breeding bird atlas work undertaken from 1986 to 1991 (Nicholson 1997), both to enhance coverage and to document ensuing changes in bird species distribution and abundance.

This is the second in a series (see Stedman and LeGrand 2016) presenting breeding bird foray data from four additional Tennessee counties. The counties presented extend geographically from west to east, thereby emphasizing elevation differences among the counties. These differences will be highlighted in a summary article dealing with all sixteen counties. Smith County lies primarily in the Central Basin with a few elements of the Highland Rim in the north and east. Jackson County is about equally in the Basin and on the Eastern Highland Rim. Overton County lies mostly on the Highland Rim having some elements of the Cumberland Plateau in the far eastern parts. Fentress County lies mainly on the Cumberland Plateau.

Each county was divided into survey blocks derived from United States Geological Survey topographic maps. Topographic maps are 7.5-minute quadrangles, each approximately

11.3 x 13.9 km that were subdivided into six 5.7 x 4.6 km blocks (26.2 km^2) as described by Nicholson (1997). These blocks were overlain on the county boundaries, with a typical county having 40–50 blocks (range 24–75 blocks). However, the county boundaries split many blocks such that many were considered as partial blocks or were completely excluded if little of the block lay within the county. Forays were conducted during late May or in June; the period of each foray varied from several days to two weeks, being mostly 3–7 days in length. A complete overview of methods is provided in Stedman and LeGrand (2016).

Observers classified the status of each species in each survey block as one of the following:

I. Transient (TRANS), based on presumption of lack of breeding by the species;
II. Possible Breeder (POSS), denoted by X-present during the foray;
III. Probable Breeder (PROB), denoted by T-territorial (present at same site on dates at least a week apart; not usually possible), P-pair, A-agitated behavior (presumably near nest or young), and C-courtship or copulation; and
IV. Confirmed Breeder (CONF) denoted by
    a. DD–distraction display,
    b. CN–adult carrying nest material,
    c. NB–adult building nest,
    d. UN–used nest,
    e. FY–adult carrying food for young,
    f. BG–begging young,
    g. FL–fledged young,
    h. FS–fecal sac removed from nest by adult,
    i. ON–adult on nest incubating,
    j. NE–nest with eggs, and
    k. NY–nest with young.

The overall foray statistics for each county are presented in Table 1. The occurrence of each species, the highest level of breeding status found, and its abundance are also presented in Appendix I and Figures 1-4.

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The following observers participated in the following county forays (Smith-S; Jackson-J; Overton-O; Fentress-F): Judy C. Fuson (J, O), Michael J. Hawkins (J), Linda Henderson (J), Ryan Higgins (O), James Layzer (J), Nancy S. Layzer (J, O), Edmund K. LeGrand (J, O, F), Thomas M. Saya (J), Barbara H. Stedman (J, O), Stephen J. Stedman (S, J, O, F), Winston A. Walden (J), and Carol D. Williams (J, O).

We thank Winston A. Walden, late Director of the Angelo and Jennette Volpe Library at Tennessee Technological University, for supplying copies of maps of the foray blocks.

We dedicate this work to the memory of Barbara H. Stedman.

LITERATURE CITED

Nicholson, C. P. 1997. Atlas of the Breeding Birds of Tennessee. University of Tennessee Press, Knoxville.

Stedman, S.J. and LeGrand, E.K. 2016. Breeding bird forays in Tennessee's Upper Cumberland Region: Part I (DeKalb, Putnam, Cumberland, and Morgan counties). The Migrant 87(3):81-101.

Table 1. Summarized Foray Effort and Results by County

County	Smith	Jackson	Overton	Fentress
Foray period	15-25 June 2015	29 May-1 June 2009	23-29 May 2011	22-28 June 2013
Blocks in county	37	40	47	55
Blocks with any coverage	37	40	47	52
Blocks with complete coverage	22	28	36	25
Blocks with 2 hour counting period	21	21	23	23
Blocks with 3 hour counting period	1	7	13	2
Blocks with night coverage	7	17	2	18
Total daylight counting hours (all blocks)	61.5	77.75	103.5	84
Night counting hours	2.25	8.25	0.5	4.75
Additional hours	0.75	29.5	12.5	7.75
Observers	1	12	7	2
Total species	101	107	117	97
Confirmed	20	64	61	24
Probable	0	11	15	7
Possible	80	28	31	66
Transient	1	4	10	0
(Atlas species missed on Foray)*	(1)	(5)	(2)	(8)
(Foray species missed on Atlas)*	(18)	(11)	(14)	(4)
Average # spp./2- and 3-hr blocks	55.8	66.3	63.8	56.6
Range of spp. # in 2- and 3-hr blocks	47-66	53-84	50-76	45-66
Total individuals counted	9737	12,427	19,382	11,177
Individuals per hour: 2 hour day counting	161.2	184.1	227.7	157.1
Individuals per hour: 3 hour day counting	121.3	112.0	142.2	93.8
Individuals per hour: 2 & 3 hour day counting	158.5	160.1	188.5	149.8
Individuals per hour: all day counting periods	158.2	158.3	187.2	132.7

* Excludes transients

Appendix I. Species Breeding Status and Abundance by County

Smith County 2015

Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
Canada Goose	POSS--X	0.2	0%	12	2	12
Wood Duck	POSS--X	0.1	9%	5	2	4
Mallard	POSS--X	0.0	5%	3	1	3
Northern Bobwhite	POSS--X	0.3	32%	17	9	5
Ruffed Grouse						
Wild Turkey	CONF--FL	0.5	45%	30	14	6
Pied-billed Grebe						
Double-crested Cormorant	TRANS	0.0	0%	1	1	1
Great Blue Heron	POSS--X	0.5	36%	30	12	10
Great Egret						
Little Blue Heron						
Green Heron	POSS--X	0.1	18%	8	5	3
Yellow-crowned Night-Heron						
Black Vulture	POSS--X	1.9	50%	116	17	40
Turkey Vulture	POSS--X	1.1	68%	67	25	10
Osprey	CONF--NY	0.0	5%	2	2	2
Cooper's Hawk	POSS--X	0.0	5%	2	2	1
Bald Eagle						
Red-shouldered Hawk	POSS--X	0.0	9%	3	3	1
Broad-winged Hawk	CONF--FL	0.2	32%	15	11	4
Red-tailed Hawk	CONF--FL	0.4	68%	24	19	2
Semipalmated Plover						
Killdeer	POSS--X	0.6	59%	34	19	5
Spotted Sandpiper						
Solitary Sandpiper						
Semipalmated Sandpiper						
American Woodcock*						
Rock Pigeon	POSS--X	0.3	23%	19	7	6
Eurasian Collared-Dove	POSS--X	0.1	9%	5	2	3
Mourning Dove	POSS--X	3.9	100%	238	36	25
Yellow-billed Cuckoo	POSS--X	0.3	41%	20	15	3
Barn Owl						
Eastern Screech-Owl*	POSS--X	0.4	14%	1	1	1
Great Horned Owl*	POSS--X	0.9	14%	2	1	2
Barred Owl*	POSS--X	0.9	29%	2	2	1
Common Nighthawk*	POSS--X	0.4	14%	1	1	1
Chuck-will's-widow*	POSS--X	1.3	43%	3	3	1
Eastern Whip-poor-will*						

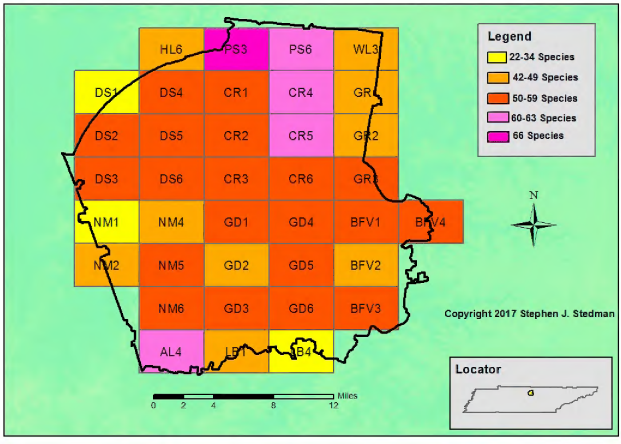
Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
Chimney Swift	POSS--X	0.5	68%	29	19	5
Ruby-throated Hummingbird	POSS--X	0.2	14%	10	7	2
Belted Kingfisher	POSS--X	0.1	14%	5	5	2
Red-headed Woodpecker	POSS--X	0.2	27%	14	12	2
Red-bellied Woodpecker	POSS--X	0.8	82%	50	26	7
Downy Woodpecker	POSS--X	0.4	55%	24	16	3
Hairy Woodpecker	POSS--X	0.1	23%	6	6	1
Northern Flicker	POSS--X	0.1	27%	9	8	2
Pileated Woodpecker	POSS--X	0.1	18%	9	6	2
American Kestrel	POSS--X	0.4	41%	26	15	4
Olive-sided Flycatcher						
Eastern Wood-Pewee	POSS--X	1.6	95%	97	33	7
Acadian Flycatcher	POSS--X	1.2	59%	74	21	9
Willow Flycatcher						
Least Flycatcher						
Eastern Phoebe	POSS--X	1.5	91%	91	34	9
Great Crested Flycatcher	POSS--X	0.5	68%	33	22	5
Eastern Kingbird	CONF--FL	2.2	100%	134	36	8
Loggerhead Shrike	CONF--FL	0.0	0%	2	1	2
White-eyed Vireo	POSS--X	5.7	100%	350	35	24
Yellow-throated Vireo	POSS--X	1.0	86%	63	27	6
Blue-headed Vireo						
Warbling Vireo	POSS--X	0.2	55%	15	14	3
Red-eyed Vireo	POSS--X	5.2	95%	319	32	24
Blue Jay	POSS--X	2.5	95%	153	35	8
American Crow	CONF--FL	4.6	100%	285	37	31
Horned Lark						
N. Rough-winged Swallow	CONF--FL	0.4	32%	27	12	6
Purple Martin	CONF--ON	3.1	59%	192	22	70
Tree Swallow	CONF--FL	0.6	50%	37	16	7
Barn Swallow	POSS--X	3.6	95%	220	33	25
Cliff Swallow	CONF--FL	2.1	50%	127	15	30
Carolina Chickadee	CONF--BG	2.5	100%	155	36	10
Tufted Titmouse	POSS--X	3.7	100%	225	37	13
White-breasted Nuthatch	POSS--X	0.3	27%	18	11	4
Brown-headed Nuthatch						
House Wren	POSS--X	0.1	9%	5	2	4
Carolina Wren	POSS--X	2.5	95%	153	32	15
Blue-gray Gnatcatcher	POSS--X	2.1	95%	130	33	9
Eastern Bluebird	CONF--FL	1.1	95%	69	31	8
Swainson's Thrush						
Wood Thrush	POSS--X	2.0	86%	123	30	13

Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
American Robin	CONF--FY	2.9	100%	178	32	18
Gray Catbird	POSS--X	0.7	73%	40	24	5
Brown Thrasher	POSS--X	0.9	82%	53	27	5
Northern Mockingbird	CONF--FL	3.9	100%	237	37	16
European Starling	CONF--NY	11.8	100%	728	32	140
Cedar Waxwing	POSS--X	0.0	5%	2	2	1
Ovenbird	POSS--X	0.1	5%	6	4	3
Worm-eating Warbler	POSS--X	0.1	9%	5	3	3
Louisiana Waterthrush	POSS--X	0.5	59%	33	18	9
Northern Waterthrush						
Golden-winged Warbler						
Blue-winged Warbler	POSS--X	0.5	41%	30	11	10
Black-and-white Warbler	POSS--X	0.0	5%	1	1	1
Prothonotary Warbler	POSS--X	0.1	9%	4	4	1
Swainson's Warbler						
Tennessee Warbler						
Mourning Warbler						
Kentucky Warbler	POSS--X	2.1	82%	132	28	14
Common Yellowthroat	POSS--X	5.2	100%	317	36	23
Hooded Warbler	POSS--X	0.4	32%	25	14	5
American Redstart	POSS--X	0.0	5%	2	1	2
Cerulean Warbler	POSS--X	0.2	14%	11	6	4
Northern Parula	POSS--X	2.4	91%	149	33	12
Magnolia Warbler						
Yellow Warbler	POSS--X	0.2	18%	10	5	3
Pine Warbler						
Yellow-throated Warbler	POSS--X	0.2	23%	14	8	4
Prairie Warbler	POSS--X	1.7	77%	106	25	18
Black-throated Green Warbler						
Yellow-breasted Chat	POSS--X	2.9	100%	178	35	17
Grasshopper Sparrow	POSS--X	0.2	18%	13	8	4
Henslow's Sparrow						
Chipping Sparrow	POSS--X	2.9	100%	181	36	10
Field Sparrow	POSS--X	6.3	100%	387	36	21
Savannah Sparrow						
Song Sparrow	CONF--FL	2.3	95%	144	32	16
Eastern Towhee	POSS--X	5.6	100%	344	35	21
Summer Tanager	POSS--X	1.4	95%	89	32	7
Scarlet Tanager	POSS--X	0.7	68%	41	23	5
Northern Cardinal	POSS--X	7.3	100%	449	37	29
Blue Grosbeak	POSS--X	1.9	100%	116	34	12

Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
Indigo Bunting	CONF--CN	11.8	100%	725	37	40
Dickcissel	POSS--X	0.1	5%	5	3	3
Red-winged Blackbird	CONF--FL	2.5	91%	152	32	15
Eastern Meadowlark	POSS--X	1.6	86%	101	29	9
Common Grackle	CONF--FL	5.6	86%	342	30	210
Brown-headed Cowbird	POSS--X	1.5	100%	92	33	10
Orchard Oriole	POSS--X	2.7	100%	164	37	12
Baltimore Oriole	ATLAS					
House Finch	POSS--X	0.2	23%	11	6	4
American Goldfinch	POSS--X	1.5	91%	95	33	8
House Sparrow	POSS--X	1.4	91%	86	26	10

1 See text for codes.
2 Includes all counting hours. Abundance data for nocturnal species (*) are based on effort during night counting periods only.
3 Based on blocks with complete 2- or 3-hr counting periods. Abundance data for nocturnal species (*) are based on blocks with night counting periods only.
4 Total individuals counted during all daylight counting periods or night counting periods.
5 Total number of blocks where found (includes effort conducted in addition to counting periods).
6 Counting periods only.

Figure 1. Total Species Detected in Blocks during the 2015 Foray in Smith County, TN



Jackson County 2009

Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
Canada Goose	CONF--FL	1.1	14%	88	9	46
Wood Duck	CONF--FL	0.2	21%	14	9	3
Mallard	CONF--FL	0.1	11%	5	4	2
Northern Bobwhite	PROB--P	0.2	32%	18	14	4
Ruffed Grouse						
Wild Turkey	CONF--ON	0.7	64%	54	24	12
Pied-billed Grebe	CONF--FL	0.0	0%	0	1	0
Double-crested Cormorant	TRANS	0.2	4%	19	4	16
Great Blue Heron	CONF--NY	0.6	61%	46	25	5
Great Egret						
Little Blue Heron						
Green Heron	POSS--X	0.2	29%	18	12	4
Yellow-crowned Night-Heron	ATLAS					
Black Vulture	POSS--X	1.1	43%	86	17	24
Turkey Vulture	POSS--X	2.0	82%	153	32	15
Osprey	CONF--NY	0.0	7%	2	4	1
Cooper's Hawk	POSS--X	0.1	18%	5	6	1
Bald Eagle	POSS--X	0.0	4%	2	1	2
Red-shouldered Hawk	PROB--P	0.1	21%	8	14	2
Broad-winged Hawk	CONF--FY	0.1	21%	8	12	2
Red-tailed Hawk	POSS--X	0.2	25%	16	17	4
Semipalmated Plover						
Killdeer	CONF--FL	0.4	39%	31	18	5
Spotted Sandpiper						
Solitary Sandpiper						
Semipalmated Sandpiper						
American Woodcock*	PROB--C	0.4	18%	3	7	1
Rock Pigeon	CONF--ON	0.9	32%	71	13	22
Eurasian Collared-Dove						
Mourning Dove	CONF--ON	5.5	100%	424	40	35
Yellow-billed Cuckoo	POSS--X	0.2	25%	17	15	2
Barn Owl	ATLAS					
Eastern Screech-Owl*	POSS--X	1.8	59%	15	10	2
Great Horned Owl*	POSS--X	0.8	35%	7	6	2
Barred Owl*	CONF-BG	2.8	71%	23	17	5
Common Nighthawk*						
Chuck-will's-widow*	POSS--X	3.4	59%	28	10	6
Eastern Whip-poor-will*	POSS--X	5.5	71%	45	12	12
Chimney Swift	POSS--X	1.1	71%	87	29	13
Ruby-throated Hummingbird	CONF--NB	0.3	54%	25	23	3

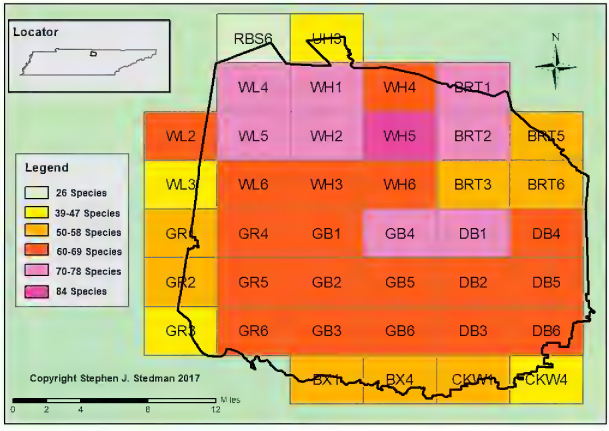
Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
Belted Kingfisher	CONF--ON	0.1	25%	9	8	2
Red-headed Woodpecker	CONF--ON	0.2	29%	14	10	3
Red-bellied Woodpecker	CONF--NY	1.2	93%	96	35	7
Downy Woodpecker	CONF--FL	0.5	61%	36	24	6
Hairy Woodpecker	CONF--FL	0.2	25%	13	12	3
Northern Flicker	POSS--X	0.3	54%	21	20	2
Pileated Woodpecker	PROB--P	0.9	89%	72	33	6
American Kestrel	PROB--P	0.2	25%	16	12	5
Olive-sided Flycatcher						
Eastern Wood-Pewee	CONF--FL	1.4	93%	105	35	11
Acadian Flycatcher	CONF--ON	2.7	86%	207	34	19
Willow Flycatcher	POSS--X	0.0	0%	0	1	0
Least Flycatcher	ATLAS					
Eastern Phoebe	CONF--ON	2.9	100%	223	40	13
Great Crested Flycatcher	CONF--ON	0.8	82%	64	35	13
Eastern Kingbird	CONF--CN	1.3	82%	102	31	9
Loggerhead Shrike	ATLAS					
White-eyed Vireo	CONF--FY	5.7	100%	444	39	28
Yellow-throated Vireo	CONF--FY	0.8	86%	61	32	5
Blue-headed Vireo						
Warbling Vireo	POSS--X	0.0	11%	3	3	1
Red-eyed Vireo	CONF--CN	7.5	100%	581	40	46
Blue Jay	CONF--FL	1.6	93%	125	38	10
American Crow	CONF--BG	6.7	100%	519	40	27
Horned Lark						
N. Rough-winged Swallow	CONF--ON	0.8	54%	65	24	7
Purple Martin	CONF--ON	1.9	46%	151	24	24
Tree Swallow	CONF--NY	0.7	50%	56	20	22
Barn Swallow	CONF--NY	1.7	79%	136	30	17
Cliff Swallow	CONF--NY	2.7	43%	208	14	60
Carolina Chickadee	CONF--FL	2.0	100%	154	39	9
Tufted Titmouse	CONF--FL	2.6	100%	202	39	22
White-breasted Nuthatch	POSS--X	0.7	75%	51	29	4
Brown-headed Nuthatch						
House Wren	POSS--X	0.0	4%	2	3	1
Carolina Wren	CONF--FL	5.1	100%	397	40	26
Blue-gray Gnatcatcher	CONF--FL	3.2	96%	251	37	19
Eastern Bluebird	CONF--FL	4.1	100%	319	39	21
Swainson's Thrush						
Wood Thrush	CONF--CN	2.4	89%	184	34	13
American Robin	CONF--FL	2.0	79%	153	32	19
Gray Catbird	POSS--X	0.4	57%	31	18	4
Brown Thrasher	CONF--FL	1.4	96%	108	35	8

Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
Northern Mockingbird	CONF--NY	2.1	93%	161	34	16
European Starling	CONF--FL	8.2	93%	637	34	79
Cedar Waxwing	POSS--X	0.8	4%	64	4	62
Ovenbird	POSS--X	1.1	71%	83	29	7
Worm-eating Warbler	CONF--FL	0.5	57%	36	23	5
Louisiana Waterthrush	POSS--X	0.5	46%	35	23	7
Northern Waterthrush						
Golden-winged Warbler	ATLAS					
Blue-winged Warbler	PROB--T	0.5	57%	42	26	9
Black-and-white Warbler	CONF--FL	0.3	43%	24	17	4
Prothonotary Warbler	CONF--ON	0.3	43%	21	15	3
Swainson's Warbler						
Tennessee Warbler	TRANS	0.0	0%	0	1	0
Mourning Warbler	TRANS	0.0	4%	1	1	1
Kentucky Warbler	POSS--X	1.1	79%	87	30	11
Common Yellowthroat	CONF--FY	4.4	100%	340	40	21
Hooded Warbler	PROB--P	1.5	82%	117	32	9
American Redstart	PROB--P	0.4	43%	33	16	4
Cerulean Warbler	POSS--X	0.4	43%	31	16	6
Northern Parula	POSS--X	2.7	82%	212	33	32
Magnolia Warbler	TRANS	0.0	0%	1	1	1
Yellow Warbler	CONF--fy	0.4	46%	31	18	7
Pine Warbler	POSS--X	0.2	21%	12	9	2
Yellow-throated Warbler	POSS--X	0.4	50%	31	25	4
Prairie Warbler	CONF--FL	2.5	93%	196	36	17
Black-throated Green Warbler						
Yellow-breasted Chat	CONF--CN	3.3	100%	254	38	14
Grasshopper Sparrow	POSS--X	0.1	11%	6	5	3
Henslow's Sparrow						
Chipping Sparrow	CONF--NY	3.3	100%	259	40	18
Field Sparrow	CONF--FY	3.0	100%	236	38	16
Savannah Sparrow						
Song Sparrow	CONF--FL	1.4	93%	108	36	9
Eastern Towhee	CONF--FL	3.6	100%	281	40	18
Summer Tanager	PROB--C	1.7	96%	133	38	8
Scarlet Tanager	PROB--P	0.8	71%	61	28	6
Northern Cardinal	CONF--FL	6.2	100%	484	40	27
Blue Grosbeak	CONF--FY	1.0	71%	80	28	8
Indigo Bunting	CONF--CN	9.4	100%	728	40	51
Dickcissel						
Red-winged Blackbird	CONF--FS	2.4	79%	189	33	40
Eastern Meadowlark	CONF--FL	1.5	71%	120	29	17
Common Grackle	CONF--FY	2.4	82%	185	32	24

Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
Brown-headed Cowbird	CONF--FL	2.6	96%	206	34	28
Orchard Oriole	CONF--CN	0.9	71%	68	31	9
Baltimore Oriole	POSS--X	0.0	0%	0	2	0
House Finch	CONF--FL	0.5	57%	40	19	7
American Goldfinch	PROB--P	3.0	96%	236	39	21
House Sparrow	CONF--ON	0.8	36%	61	16	15

1 See text for codes.
2 Includes all counting hours. Abundance data for nocturnal species (*) are based on effort during night counting periods only.
3 Based on blocks with complete 2- or 3-hr counting periods. Abundance data for nocturnal species (*) are based on blocks with night counting periods only.
4 Total individuals counted during all daylight counting periods or night counting periods.
5 Total number of blocks where found (includes effort conducted in addition to counting periods).
6 Counting periods only.

Figure 2. Total Species Recorded per Block during the 2009 Foray in Jackson County, TN



Overton County 2011

Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
Canada Goose	CONF--FL	1.9	50%	200	26	36
Wood Duck	CONF--FL	0.4	56%	43	23	4
Mallard	PROB-P	0.1	6%	6	3	5
Northern Bobwhite	PROB-P	0.9	86%	94	39	10
Ruffed Grouse	ATLAS					
Wild Turkey	CONF--FL	0.2	39%	25	16	4
Pied-billed Grebe						
Double-crested Cormorant						
Great Blue Heron	POSS--X	0.1	17%	7	7	2
Great Egret	TRANS	0.0	6%	2	2	1
Little Blue Heron	TRANS	0.0	0%	0	1	0
Green Heron	POSS--X	0.2	28%	17	11	3
Yellow-crowned Night-Heron						
Black Vulture	POSS--X	0.2	22%	16	11	4
Turkey Vulture	POSS--X	1.4	69%	145	34	19
Osprey	ATLAS					
Cooper's Hawk	POSS--X	0.1	11%	6	12	1
Bald Eagle						
Red-shouldered Hawk	PROB-P	0.3	44%	30	22	5
Broad-winged Hawk	POSS--X	0.1	17%	10	11	1
Red-tailed Hawk	PROB-P	0.2	33%	19	16	3
Semipalmated Plover	TRANS	0.0	3%	1	1	1
Killdeer	CONF--NY	0.4	61%	46	28	6
Spotted Sandpiper	TRANS	0.0	3%	1	1	1
Solitary Sandpiper	TRANS	0.0	3%	1	1	1
Semipalmated Sandpiper	TRANS	0.4	6%	41	2	40
American Woodcock*	POSS--X	0.0	0%	0	1	0
Rock Pigeon	POSS--X	0.7	31%	69	12	20
Eurasian Collared-Dove	PROB--C	0.1	6%	9	4	6
Mourning Dove	CONF--CN	6.8	100%	708	45	57
Yellow-billed Cuckoo	CONF--CN	0.5	78%	53	37	4
Barn Owl						
Eastern Screech-Owl*	CONF--FL	4.0	50%	2	4	2
Great Horned Owl*	PROB--P	4.0	50%	2	2	2
Barred Owl*	POSS--X	0.0	0%	0	5	0
Common Nighthawk*	POSS--X	0.0	0%	0	1	0
Chuck-will's-widow*	POSS--X	0.0	0%	0	5	0
Eastern Whip-poor-will*	POSS--X	8.0	100%	4	6	3
Chimney Swift	CONF--ON	1.4	81%	144	38	22
Ruby-throated Hummingbird	PROB--C	0.2	28%	19	14	3
Belted Kingfisher	CONF--NB	0.1	8%	6	4	3

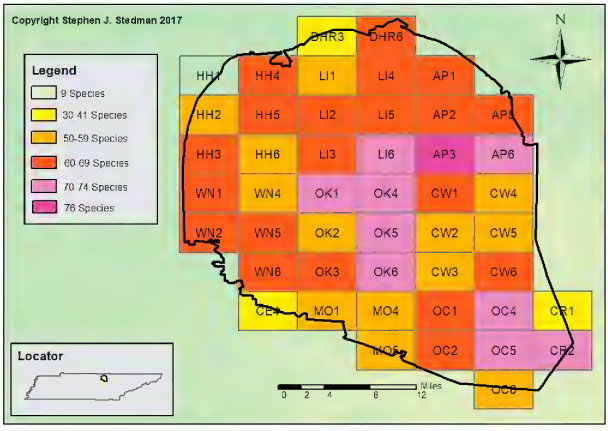
Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
Red-headed Woodpecker	CONF--ON	0.4	44%	38	22	6
Red-bellied Woodpecker	CONF--FY	1.8	94%	186	43	9
Downy Woodpecker	POSS--X	0.3	53%	35	23	6
Hairy Woodpecker	PROB--P	0.2	33%	18	16	2
Northern Flicker	CONF--FY	0.5	67%	50	31	3
Pileated Woodpecker	PROB--P	0.5	78%	53	34	5
American Kestrel	CONF--FL	0.5	50%	47	23	6
Olive-sided Flycatcher	TRANS	0.0	0%	1	1	1
Eastern Wood-Pewee	CONF--ON	2.3	94%	243	45	21
Acadian Flycatcher	CONF--ON	1.5	75%	157	38	21
Willow Flycatcher	POSS--X	0.0	6%	3	2	2
Least Flycatcher						
Eastern Phoebe	CONF--ON	1.3	89%	138	41	8
Great Crested Flycatcher	CONF--FY	1.3	94%	137	43	13
Eastern Kingbird	CONF--FY	2.0	94%	202	43	9
Loggerhead Shrike	PROB--P	0.0	6%	4	3	2
White-eyed Vireo	POSS--X	2.1	94%	221	41	12
Yellow-throated Vireo	CONF--CN	0.7	78%	68	33	5
Blue-headed Vireo	POSS--X	0.2	17%	16	9	6
Warbling Vireo	POSS--X	0.0	6%	2	2	1
Red-eyed Vireo	CONF--CN	7.4	100%	764	47	51
Blue Jay	CONF--CN	2.5	92%	262	46	18
American Crow	POSS--X	5.3	94%	552	45	40
Horned Lark	PROB--P	0.0	3%	5	2	4
N. Rough-winged Swallow	CONF--ON	0.6	44%	58	19	11
Purple Martin	CONF--NY	3.4	61%	351	31	66
Tree Swallow	CONF--FL	0.5	56%	52	25	5
Barn Swallow	CONF--NY	6.1	97%	636	45	75
Cliff Swallow						
Carolina Chickadee	CONF--FL	1.1	89%	110	39	6
Tufted Titmouse	CONF--FY	3.3	100%	342	46	17
White-breasted Nuthatch	POSS--X	0.4	61%	43	30	3
Brown-headed Nuthatch						
House Wren	POSS--X	0.2	22%	23	11	7
Carolina Wren	CONF--FL	3.9	100%	403	45	26
Blue-gray Gnatcatcher	POSS--X	2.0	92%	204	42	15
Eastern Bluebird	CONF--FL	3.9	94%	399	44	24
Swainson's Thrush	TRANS	0.0	6%	2	2	1
Wood Thrush	CONF--CN	1.2	83%	125	37	9
American Robin	CONF--CN	4.4	92%	455	43	32
Gray Catbird	POSS--X	0.2	39%	17	17	2
Brown Thrasher	CONF--FL	1.4	94%	147	42	9
Northern Mockingbird	CONF--NY	4.0	97%	414	45	24

Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
European Starling	CONF--NY	21.6	92%	2237	44	230
Cedar Waxwing	POSS--X	1.2	28%	128	17	50
Ovenbird	POSS--X	1.4	61%	149	29	22
Worm-eating Warbler	PROB--P	0.4	36%	43	17	8
Louisiana Waterthrush	CONF--FY	0.4	42%	37	19	5
Northern Waterthrush	TRANS	0.0	3%	1	1	1
Golden-winged Warbler						
Blue-winged Warbler	POSS--X	0.0	11%	4	5	1
Black-and-white Warbler	POSS--X	0.4	42%	41	19	5
Prothonotary Warbler	CONF--FY	0.0	6%	3	2	2
Swainson's Warbler						
Tennessee Warbler						
Mourning Warbler	TRANS	0.0	6%	2	2	1
Kentucky Warbler	CONF--FY	0.9	75%	96	35	10
Common Yellowthroat	CONF--FY	3.7	100%	385	45	18
Hooded Warbler	CONF--FY	1.4	75%	148	35	14
American Redstart	POSS--X	0.0	8%	3	3	1
Cerulean Warbler	POSS--X	0.1	6%	8	3	4
Northern Parula	CONF--FL	0.6	75%	66	31	6
Magnolia Warbler						
Yellow Warbler	POSS--X	0.1	17%	11	7	3
Pine Warbler	CONF--FL	0.4	44%	41	23	6
Yellow-throated Warbler	POSS--X	0.7	78%	76	39	6
Prairie Warbler	CONF--FY	1.1	92%	111	39	9
Black-throated Green Warbler	POSS--X	0.1	8%	6	3	3
Yellow-breasted Chat	CONF--FY	3.0	97%	310	44	18
Grasshopper Sparrow	CONF--FY	0.5	56%	52	25	9
Henslow's Sparrow	CONF--FY	0.0	8%	3	3	1
Chipping Sparrow	CONF--FY	4.8	94%	500	45	53
Field Sparrow	CONF--FL	2.7	97%	279	44	14
Savannah Sparrow	PROB--T	0.0	6%	2	2	1
Song Sparrow	CONF--FL	2.6	92%	264	42	18
Eastern Towhee	CONF--FL	2.9	89%	302	45	19
Summer Tanager	PROB--P	1.4	89%	140	41	11
Scarlet Tanager	CONF--CN	1.4	81%	149	38	11
Northern Cardinal	CONF--FY	5.7	97%	588	44	26
Blue Grosbeak	CONF--CN	2.3	94%	238	44	16
Indigo Bunting	CONF--CN	10.2	100%	1057	46	65
Dickcissel	CONF--CN	0.7	36%	73	15	15
Red-winged Blackbird	CONF--FY	12.5	94%	1295	45	134
Eastern Meadowlark	CONF--FY	4.2	97%	430	46	27
Common Grackle	CONF--NY	1.7	78%	177	33	20

Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
Brown-headed Cowbird	CONF--FL	3.9	94%	403	44	40
Orchard Oriole	CONF--CN	1.7	89%	171	41	9
Baltimore Oriole						
House Finch	CONF--ON	1.0	64%	108	29	16
American Goldfinch	PROB--C	2.0	100%	209	46	11
House Sparrow	CONF--FL	3.2	89%	327	40	47

1 See text for codes.
2 Includes all counting hours. Abundance data for nocturnal species (*) are based on effort during night counting periods only.
3 Based on blocks with complete 2- or 3-hr counting periods. Abundance data for nocturnal species (*) are based on blocks with night counting periods only.
4 Total individuals counted during all daylight counting periods or night counting periods.
5 Total number of blocks where found (includes effort conducted in addition to counting periods).
6 Counting periods only.

Figure 3. Total Species Recorded per Block during the UCR Foray in Overton County, TN



Fentress County 2013

Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
Canada Goose	POSS--X	0.3	20%	29	5	10
Wood Duck	CONF--FL	0.3	28%	28	8	12
Mallard	PROB--P	0.0	0%	2	2	2
Northern Bobwhite	POSS--X	0.3	36%	21	11	4
Ruffed Grouse	ATLAS					
Wild Turkey	CONF--FL	0.1	4%	8	10	1
Pied-billed Grebe						
Double-crested Cormorant						
Great Blue Heron	POSS--X	0.1	28%	11	11	2
Great Egret						
Little Blue Heron						
Green Heron	POSS--X	0.1	28%	9	10	1
Yellow-crowned Night-Heron						
Black Vulture	POSS--X	0.1	16%	10	8	3
Turkey Vulture	POSS--X	1.5	52%	126	30	40
Osprey						
Cooper's Hawk	POSS--X	0.0	8%	3	3	1
Bald Eagle						
Red-shouldered Hawk	POSS--X	0.3	56%	28	22	4
Broad-winged Hawk	CONF--FL	0.2	24%	15	14	2
Red-tailed Hawk	CONF--FL	0.1	28%	9	9	2
Semipalmated Plover						
Killdeer	POSS--X	0.6	48%	54	18	8
Spotted Sandpiper						
Solitary Sandpiper						
Semipalmated Sandpiper						
American Woodcock*	ATLAS					
Rock Pigeon	POSS--X	0.4	28%	31	11	6
Eurasian Collared-Dove						
Mourning Dove	POSS--X	3.0	100%	251	42	24
Yellow-billed Cuckoo	CONF--FY	0.4	44%	34	16	6
Barn Owl	ATLAS					
Eastern Screech-Owl*	ATLAS					
Great Horned Owl*	POSS--X	0.0	0%	0	1	0
Barred Owl*	POSS--X	0.6	17%	3	4	1
Common Nighthawk*	ATLAS					
Chuck-will's-widow*	POSS--X	2.3	39%	11	7	3
Eastern Whip-poor-will*	POSS--X	3.8	56%	18	13	5
Chimney Swift	POSS--X	0.5	44%	40	20	4
Ruby-throated Hummingbird	PROB--C	0.2	12%	13	14	2

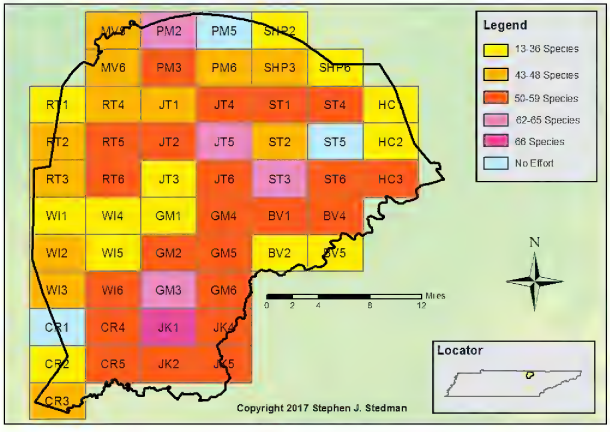
Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
Belted Kingfisher	POSS--X	0.1	12%	7	7	1
Red-headed Woodpecker	CONF-ON	0.4	40%	33	14	6
Red-bellied Woodpecker	CONF--FY	1.0	96%	85	35	7
Downy Woodpecker	POSS--X	0.6	76%	49	31	4
Hairy Woodpecker	POSS--X	0.1	24%	10	10	1
Northern Flicker	POSS--X	0.6	60%	48	25	9
Pileated Woodpecker	POSS--X	0.3	44%	26	18	3
American Kestrel	PROB--P	0.3	48%	27	16	5
Olive-sided Flycatcher						
Eastern Wood-Pewee	POSS--X	1.9	100%	156	45	10
Acadian Flycatcher	POSS--X	0.9	36%	78	22	10
Willow Flycatcher	POSS--X	0.0	8%	4	4	3
Least Flycatcher						
Eastern Phoebe	CONF--UN	1.1	100%	95	39	6
Great Crested Flycatcher	POSS--X	0.6	72%	52	24	5
Eastern Kingbird	POSS--X	1.0	80%	82	34	8
Loggerhead Shrike						
White-eyed Vireo	POSS--X	1.7	84%	140	40	11
Yellow-throated Vireo	POSS--X	1.1	76%	95	36	7
Blue-headed Vireo	POSS--X	0.1	20%	12	9	3
Warbling Vireo						
Red-eyed Vireo	POSS--X	8.9	100%	748	50	57
Blue Jay	POSS--X	1.9	92%	159	42	13
American Crow	CONF--BG	5.2	100%	439	50	25
Horned Lark	ATLAS					
N. Rough-winged Swallow	POSS--X	1.1	68%	93	28	12
Purple Martin	CONF--ON	1.2	44%	97	17	21
Tree Swallow	CONF--FL	0.6	60%	54	21	6
Barn Swallow	CONF--FY	6.7	92%	562	40	61
Cliff Swallow						
Carolina Chickadee	CONF--BG	2.3	100%	189	46	11
Tufted Titmouse	POSS--X	3.2	100%	268	49	16
White-breasted Nuthatch	POSS--X	0.9	76%	76	34	6
Brown-headed Nuthatch	POSS--X	0.0	4%	3	1	3
House Wren	POSS--X	2.0	80%	164	29	28
Carolina Wren	POSS--X	3.8	100%	315	49	22
Blue-gray Gnatcatcher	PROB--P	1.2	76%	101	39	11
Eastern Bluebird	CONF--FL	2.7	100%	226	45	13
Swainson's Thrush						
Wood Thrush	POSS--X	1.5	96%	128	38	11
American Robin	CONF--FY	3.5	96%	290	40	31
Gray Catbird	CONF--NY	0.4	44%	36	17	6
Brown Thrasher	CONF--FY	0.9	92%	73	35	6

Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
Northern Mockingbird	CONF--FL	1.6	76%	133	34	19
European Starling	CONF--FY	15.5	92%	1299	38	155
Cedar Waxwing	POSS--X	0.5	48%	39	22	4
Ovenbird	POSS--X	2.0	84%	169	37	16
Worm-eating Warbler	POSS--X	0.2	16%	15	8	4
Louisiana Waterthrush	PROB--P	0.2	32%	18	12	3
Northern Waterthrush						
Golden-winged Warbler						
Blue-winged Warbler	ATLAS					
Black-and-white Warbler	PROB--P	0.3	32%	22	17	3
Prothonotary Warbler						
Swainson's Warbler	POSS--X	0.0	8%	4	3	2
Tennessee Warbler						
Mourning Warbler						
Kentucky Warbler	PROB--A	0.5	52%	46	24	6
Common Yellowthroat	POSS--X	2.5	96%	214	45	12
Hooded Warbler	POSS--X	1.9	88%	163	42	16
American Redstart	POSS--X	0.0	4%	2	1	2
Cerulean Warbler	POSS--X	0.1	12%	6	5	2
Northern Parula	POSS--X	0.7	44%	56	24	8
Magnolia Warbler						
Yellow Warbler	ATLAS					
Pine Warbler	POSS--X	0.4	44%	31	19	6
Yellow-throated Warbler	POSS--X	1.2	72%	102	39	7
Prairie Warbler	POSS--X	0.8	72%	65	32	7
Black-throated Green Warbler	POSS--X	0.2	12%	14	6	5
Yellow-breasted Chat	CONF--FY	2.0	96%	164	47	11
Grasshopper Sparrow	CONF--FY	0.1	16%	8	6	2
Henslow's Sparrow						
Chipping Sparrow	CONF--FL	3.2	100%	270	48	18
Field Sparrow	POSS--X	2.0	100%	165	47	7
Savannah Sparrow	POSS--X	0.0	4%	2	1	2
Song Sparrow	POSS--X	2.3	96%	197	41	14
Eastern Towhee	POSS--X	1.9	100%	157	40	14
Summer Tanager	POSS--X	0.3	20%	22	10	5
Scarlet Tanager	POSS--X	1.0	76%	85	36	6
Northern Cardinal	POSS--X	3.0	96%	256	45	17
Blue Grosbeak	POSS--X	1.5	92%	122	39	9
Indigo Bunting	POSS--X	7.6	100%	638	52	38
Dickcissel						
Red-winged Blackbird	CONF--FY	3.8	88%	320	39	40
Eastern Meadowlark	POSS--X	1.6	92%	136	38	17

Species	Breeding Status[1]	Average/ Hour[2]	% Blocks Present[3]	Individuals Counted[4]	# blocks Present[5]	Maximum (any block)[6]
Common Grackle	POSS--X	0.5	32%	45	17	15
Brown-headed Cowbird	POSS--X	1.0	88%	82	38	15
Orchard Oriole	POSS--X	0.5	56%	43	24	4
Baltimore Oriole						
House Finch	POSS--X	0.5	48%	39	16	9
American Goldfinch	POSS--X	1.3	96%	109	40	11
House Sparrow	CONF--NB	1.7	76%	145	31	30

1 See text for codes.
2 Includes all counting hours. Abundance data for nocturnal species (*) are based on effort during night counting periods only.
3 Based on blocks with complete 2- or 3-hr counting periods. Abundance data for nocturnal species (*) are based on blocks with night counting periods only.
4 Total individuals counted during all daylight counting periods or night counting periods.
5 Total number of blocks where found (includes effort conducted in addition to counting periods).
6 Counting periods only.

Figure 4. Total Species Recorded per Block during 2013 Foray in Fentress County, TN



IN MEMORIAM: J. WALLACE COFFEY (1940 – 2016)

Wallace Coffey passed away on 27 September 2016 at the age of 76, leaving behind a tremendous legacy of bird study, mentoring, and fellowship throughout Tennessee.

Coffey was born on 4 January 1940 in Bristol, Virginia. He graduated from Tennessee High School in 1960, having excelled in track and field, and then studied biology at East Tennessee State University. Wallace's early career was in television at WCYB in Bristol, Tennessee, followed by 31 years at the *Bristol Herald-Courier* newspaper. His time at the newspaper included authoring many articles about birds and other wildlife in the Bristol region as well as many other subjects. He served as the Marketing Director for 17 years. He married Carolyn Randall Coffey in 1966 and she often joined him on field trips and at naturalist events. They had one daughter, Janet Coffey, who currently resides in Harvest, Alabama with her husband Daniel and their daughter Meredith.

Coffey was a lifelong naturalist. He was a member of Tennessee Ornithological Society (TOS) for more than 50 years, served many editorial roles (including Editor) for *The Migrant*, and held other leadership positions in the society. This commitment to TOS was recognized with a Distinguished Service award in 2009. Coffey was a founding member of the Bristol Bird Club (a chapter of both TOS and the Virginia Society of Ornithology) and was active in that chapter for 58 years. With much of his field time spent in southwestern Virginia, he also filled leadership roles in the Virginia Society of Ornithology. He covered the same area within the Bristol Christmas Bird Count for more than 50 years and was an active bird bander for more than 30 years.

Wallace felt strongly about the important of publishing findings, and authored a volume titled *Mountain Empire Region Ferns and Fern Allies Distribution Maps* in 1979. In 1999, with co-author John Shumate, Jr., he published *Bird Study in Shady Valley, 1934-1999*. This volume had the expected annotated checklist of all species known from his beloved Shady Valley, Tennessee, and also included extensive documentation of the history of ornithological research in the area and overviews of the valley's unique geology and ecology. He helped others bring similar publications to fruition in the region, including *The Birds of Northeast Tennessee* by Richard L. Knight, *Birds of Smyth County, Virginia* by Anthony Decker, and *Birds of the Virginia Cumberlands* by Richard Peake.

Aided by his marketing background, Wallace sought out opportunities to bring nature to broader audiences through events as well as by making habitats available to the general public. Inspired by existing wildflower walks being hosted in the region, he co-founded the Mount Rogers Naturalist Rally in southwestern Virginia in 1978, an annual event which is still popular today. He also established the Shady Valley Cranberry Festival in Johnson County, Tennessee. In the early 1970s, he worked with the U.S Forest Service to have Slagle's Hollow donated to the city of Bristol. He also proposed to the city of Bristol that they should

establish a nature center associated with Slagle's Hollow. It took many years for this to come to fruition, and Slagle's Hollow had become part of the large and heavily visited Steele Creek Park; in 1996 the Steele Creek Nature Center opened. The city of Bristol further expanded the nature center in 2016, with the Friends of Steele Creek Park and Nature Center helping raise the funds to build the extensive public exhibits in this new building.

Wallace was an early adopter of technologies and became familiar to many birders in Tennessee when he created the Valley Birds Net in the 1990s, well before most states had their own e-mail communication systems and before list servers were ubiquitous. This network was eventually reformed as a listserv and rebranded "TN-Bird" under ownership of the Tennessee Ornithological Society, but Wallace remained the moderator until his passing. Uniquely, he also explored the utility of e-mail as a way to explore hurricane-related bird sightings through "Hurricane Net", starting in 1995. This was a moderated series of e-mails that Wallace wrote as hurricanes approached the southeastern USA, including updates on storm trajectories, coordination of field observers in coastal habitats, and communication about significant findings in nearly real-time. Wallace had an intuitive sense of the potential of these technologies, and the success his success was covered in the pages of *Birding* and *Field Notes*.

Wallace remained dedicated to involving everyone in the study of birds and nature in general. Field trips with Wallace were at a pace that matched the interest of his field partners, ranging from short hikes with beginning birders, to collecting data on salamander or small mammal populations, to long days spent trapping and banding raptors across Sullivan County, Tennessee. Through these hours in the field, he was a mentor to dozens of young people who went on to distinguished careers throughout the sciences. I owe a tremendous debt to Wallace, who challenged me to leave my comfort zones in college to pursue research opportunities, and to complete a Ph.D. in ornithology. Dr. Brent Rowell (University of Kentucky), Dr. Charles R. Smith (Cornell University), Chris O'Bryan (pursuing a Ph.D. at University of Queensland), and countless other talented biologists were similarly pushed to new heights with Wallace's encouragement and guidance. His life impacted more than just those he mentored; his dedication to natural history and all things ornithology had an outsized impact across the southern Appalachians.

Memorial contributions in Wallace Coffey's name are being used to help build the public displays for the new expansion at the Steele Creek Park Nature Center.

Janet Coffey, Kevin Hamed, Rick Knight, Chris O'Bryan, Carrie Sparks, and Michele Sparks provided invaluable assistance in the preparation of this memorial.

Andy Jones, William A. and Nancy R. Klamm Endowed Chair of Ornithology and Head of Department of Ornithology, Cleveland Museum of Natural History, Cleveland, OH

2016 TENNESSEE FALL BIRD COUNTS

Ron Hoff
TOS State Compiler
Clinton, TN 37716

There were eight Fall Bird Counts conducted this year. Participants spent nearly 285 party hours in the field to locate 36,017 individuals. These data represented 181 species. No major weather events affected the counts this year, although a couple of counts had some light rain and high temperatures. Temperatures ranged from 59° F to 91° F.

Count highlights include Ruffed Grouse, American Golden-Plover, Barn Owl, Northern Saw-whet Owl, Olive-sided Flycatcher, Red Crossbill, 33 species of warblers, Henslow's and Lincoln's Sparrow.

COUNTY SUMMARIES

(F/Y = feeder/yard watcher)

ANDERSON COUNTY - 24 September; 0700-1606. Weather: mostly clear with some scattered clouds; wind 1-6 mph; 65-90° F. American Golden-Plover, Brown-headed Nuthatch, and Canada Warbler are notable. Observers: Frank Bills, Sharon Bostick, Doug Bruce, Bates Estabrooks, Melinda Fawver, Carole Gobert, Ron Hoff (compiler), Dollyann Myers, and Stephen J. Stedman.

BLOUNT COUNTY – 17 September; 0500-2005. Weather: partly cloudy to mostly sunny; 59-91° F. Observers: Jean J. Alexander (compiler), Tiffany Beachy, Suzanne Bielenberg, Warren Bielenberg, Doug Bruce, Fran Bunse, Fae Burkhart, Hurami Butcher, Marcia Davis, Wanda DeWaard, Sue Evison, Melinda Fawver, Marian D. Fitzgerald, Tom E. Fitzgerald, Kim J. Henry, Stephen P. Henry, Thomas D. Howe, Susan Hoyle, James R. Human, David M. Johnson, Karen J. Petrey, Stephen Rothschild, Doug Schneeberger, Paula Schneeberger, Mary Tankersley, June D. Welch, and Randy Winstead.

ELIZABETHTON – 24 September; 0445-1930. Weather: clear to partly cloudy with a calm wind 59-89° F. This was the 47th consecutive Fall Count at Elizabethton. The count area includes Carter County and parts of adjacent Johnson, Sullivan, Unicoi, and Washington counties. The average number of species for this count for the last 30 years is 125 and the all-time high count was 137 in 1993. Oppressive heat on count day affected results. Highlights include Northern Saw-whet Owl, Peregrine Falcon, and Red Crossbill. Observers: Fred Alsop, Jim Anderson, Betty Bailey, Gary Bailey, Emily Bayes, Paul Bayes, Jerry Bevins, Dallas Brooks, Kevin Brooks, Melissa Campbell, Ron Carrico, Gil Derouen, Diane Draper, Glen Eller, Harry Lee Farthing, Dave Gardner, Bill Grigsby, Don Holt, Karen Justice, David Kirschke, Rick Knight (compiler), Roy Knispel, Richard Lewis, Priscilla Little, Vern Maddux, Joe McGuiness, Tom McNeil, Eric Middlemas, Avery Myers, Gabe Overcast, Brookie Potter, Jean Potter, Lia Pritchard, Peter Range, Ken Rea, Chris Soto, Bryan Stevens, Kim Stroud, and Lauren Weeks.

LOUDON COUNTY- 18 September; no times given. Weather: overcast with light rain

in the afternoon; wind N 5-15 mph; 68-81° F. Observers: Gail Clendenen, Steve Clendenen, Barbara Colaw, Stan Colburn, Chuck Cruickshank, Charlotte Jackson, Harry Jackson, Tony King (compiler), Toby Koosman, Claire Manzo, Janet McKnight, Denise Nauman, Pat Patterson, Mike Ryon, Mike Sullivan, Zse Zse Sullivan, and Dean Turley.

MONTGOMERY COUNTY – 17 September; no times given. Weather: overcast with some light rain in the morning; wind S 6-13 mph; 69-79° F. Notable finds include Merlin, Peregrine Falcon, Horned Lark, Sedge Wren, and Henslow's Sparrow. Daniel Moss (compiler), Rick Shipkowski, and Sue Shipkowski.

NASHVILLE – 24 September; 0430-1830. Weather: mostly clear and sunny; wind NE 0-5 mph; 63-90° F. The count area includes parts of Davidson, Cheatham, Williamson, and Rutherford counties. Observers: Kristy Baker, Sandy Bivens, Susan Bradfield, Trae Bradfield, Jean Buchanan, Ed Byrne, Phillip Casteel, Richard Connors, Kimmie Dove, Jerry Drewry, Francis Fekel, Mark Hackney, Barbara Harris, Doug Hudson, Bob Ingle, John Kell, Camille Monohan, Amy Potter, Victoria Rebeck, Polly Rooker, Amanda Schaade, Jan Shaw, Kathy Shaw, Shelia Shay, Danny Shelton, Chris Sloan, Chad Smith, Michael Smith, Josh Stevenson, Joe Stone, Susan Thomas, Chloe Walker, LinnAnn Welch, Terry Witt, Melinda Welton, Mary Zimmerman, and Stephen Zipperer. Non-participating compiler: Cyndi Routledge.

PERRY COUNTY- 24 September; no times given. Weather: sunny; 80's° F. Highlights include 2,455 American White Pelicans, Mourning Warbler, and a very late Orchard Oriole. Observers: none submitted. Ruben Stoll (compiler).

SHELBY COUNTY – 17 September; 0700-1800. Weather: partly cloudy to cloudy; wind S 3-5 mph; 70-85° F. Count area includes Shelby Forest, Shelby Farms, Ensley Bottoms, North Treatment Plant, Overton Park, Edmund Orgill Park, Garner Lake and Millington Navy Base. Yellow-bellied, Alder flycatchers and a Cerulean Warbler are notable. Observers: Betty Blaylock, David Blaylock, Thomas Blevins, Chad Brown, Chris Constantino, Judy Dorsey, Rob Harbin, Margaret Jefferson, Dick Preston (compiler), Ed Thomas, and Martha Waldron.

2016 Fall Bird Counts

Counties	Anderson	Blount	Elizabethton	Knox	Loudon	Montgomery	Nashville	Perry	Shelby	Totals
Count Dates	24-Sep	17-Sep	24-Sep		18-Sep	17-Sep	24-Sep	24-Sep	17-Sep	
Species										
Black-bellied Whistling-Duck	-	-	-		-	-	-	-	9	9
Canada Goose	10	305	1118		224	-	348	-	131	2136
Wood Duck	6	22	40		-	1	13	14	2	98
Mallard	33	7	224		18	-	105	-	46	433
Blue-winged Teal	2	2	4		-	-	9	16	60	93
Northern Shoveler	-	-	-		-	-	-	-	49	49
Green-winged Teal	-	-	1		-	-	-	-	-	1
Ruddy Duck	-	-	-		-	-	-	-	2	2
Northern Bobwhite	-	-	-		-	-	-	1	-	1
Ruffed Grouse	-	-	2		-	-	-	-	-	2
Wild Turkey	1	8	23		35	-	80	22	2	171
Pied-billed Grebe	-	1	3		3	-	10	-	-	17
Rock Pigeon	191	85	365		103	-	55	17	18	834
Eurasian Collared-Dove	-	7	2		-	-	1	5	14	29
Mourning Dove	34	368	174		287	14	114	178	227	1396
Yellow-billed Cuckoo	2	3	1		3	-	7	21	3	40
Black-billed Cuckoo	-	1	-		-	-	2	-	-	3
Cuckoo sp.	-	-	-		-	-	-	-	1	1
Common Nighthawk	-	8	3		1	-	-	-	1	13
Eastern Whip-poor-will	-	-	-		-	-	-	5	-	5
Chimney Swift	6	322	379		131	6	137	71	13	1065
Ruby-throated Hummingbird	13	58	30		88	15	27	40	20	291
American Coot	1	-	-		-	-	-	-	-	1
Black-necked Stilt	-	-	-		-	-	-	-	17	17
American Golden-Plover	1	-	-		-	-	-	-	-	1
Semipalmated Plover	-	-	-		-	-	-	-	2	2

Counties	Anderson	Blount	Elizabethton	Knox	Loudon	Montgomery	Nashville	Perry	Shelby	Totals
Killdeer	30	28	66		11	5	68	34	90	332
Stilt Sandpiper	-	-	-		-	-	-	-	9	9
Least Sandpiper	3	-	4		-	-	-	12	3050	3069
Pectoral Sandpiper	-	-	6		-	-	-	-	46	52
Semipalmated Sandpiper	-	-	-		-	-	-	-	2	2
Wilson's Snipe	-	-	-		-	-	-	1	-	1
American Woodcock	-	-	4		-	-	-	-	-	4
Spotted Sandpiper	1	-	3		-	-	-	-	2	6
Solitary Sandpiper	-	1	-		-	-	1	-	1	3
Greater Yellowlegs	-	-	-		-	-	-	-	3	3
Lesser Yellowlegs	-	-	-		-	-	-	-	14	14
Ring-billed Gull	-	-	-		-	-	10	-	-	10
Caspian Tern	-	-	-		-	-	3	-	-	3
Double-crested Cormorant	12	27	16		119	-	82	12	23	291
American White Pelican	-	-	-		-	-	1	2455	-	2456
Great Blue Heron	8	30	30		20	2	34	34	10	168
Great Egret	1	5	10		-	-	41	31	15	103
Green Heron	-	4	2		1	2	2	1	2	14
Black-crowned Night-Heron	-	3	2		16	-	5	-	-	26
Yellow-crowned Night-Heron	-	-	1		-	-	-	-	-	1
Black Vulture	-	23	159		38	4	137	122	1	484
Turkey Vulture	9	69	222		42	6	55	203	9	615
Osprey	-	6	7		6	-	4	2	1	26
Bald Eagle	2	4	4		3	-	2	8	-	23
Northern Harrier	-	-	-		-	-	-	1	-	1
Sharp-shinned Hawk	-	-	2		-	-	-	2	1	5
Cooper's Hawk	1	3	10		3	-	8	1	1	27
Accipiter sp.	-	-	-		-	-	1	-	-	1
Red-shouldered Hawk	5	13	5		3	-	6	9	6	47

Counties	Anderson	Blount	Elizabethton	Knox	Loudon	Montgomery	Nashville	Perry	Shelby	Totals
Broad-winged Hawk	5	1	25		-	-	2	14	1	48
Red-tailed Hawk	3	5	22		10	1	16	4	7	68
Buteo sp.	-	2	-		-	-	-	-	-	2
Barn Owl	-	-	-		-	-	1	-	-	1
Eastern Screech Owl	2	3	14		-	-	8	1	-	28
Great Horned Owl	2	1	8		1	-	4	1	1	18
Barred Owl	2	-	8		-	-	9	5	1	25
Northern Saw-whet Owl	-	-	1		-	-	-	-	-	1
Belted Kingfisher	5	11	33		12	1	14	5	6	87
Red-headed Woodpecker	-	1	1		2	2	1	4	16	27
Red-bellied Woodpecker	25	56	61		30	2	68	28	38	308
Yellow-bellied Sapsucker	-	-	5		-	-	-	-	-	5
Downy Woodpecker	17	42	42		10	3	63	24	23	224
Hairy Woodpecker	5	7	10		1	-	5	7	1	36
Northern Flicker	8	13	28		5	2	19	2	3	80
Pileated Woodpecker	4	23	32		9	-	19	20	8	115
American Kestrel	1	-	14		8	-	11	5	1	40
Merlin	-	-	-		-	1	1	1	-	3
Peregrine Falcon	-	1	2		-	1	-	-	-	4
Olive-sided Flycatcher	-	-	-		-	-	1	-	-	1
Eastern Wood-Pewee	12	20	12		5	3	36	97	23	208
Yellow-bellied Flycatcher	-	-	-		-	-	-	3	1	4
Acadian Flycatcher	-	-	1		-	-	-	7	26	34
Alder Flycatcher	-	-	-		-	-	-	1	1	2
Least Flycatcher	-	-	-		-	-	1	-	-	1
Empidonax sp.	-	2	3		-	-	-	-	1	6
Eastern Phoebe	12	35	68		10	4	32	40	5	206
Great Crested Flycatcher	-	1	-		-	-	-	1	1	3
Eastern Kingbird	-	11	1		-	-	-	-	3	15

Counties	Anderson	Blount	Elizabethton	Knox	Loudon	Montgomery	Nashville	Perry	Shelby	Totals
Loggerhead Shrike	-	-	-		1	-	1	-	-	2
White-eyed Vireo	18	21	2		13	5	49	131	67	306
Yellow-throated Vireo	9	4	2		1	2	6	27	5	56
Blue-headed Vireo	4	6	20		-	-	-	-	-	30
Philadelphia Vireo	2	-	-		-	-	3	5	-	10
Warbling Vireo	1	-	-		-	-	3	1	-	5
Red-eyed Vireo	4	7	15		1	1	7	5	6	46
Blue Jay	43	161	329		150	6	220	92	29	1030
American Crow	31	330	376		154	32	137	340	25	1425
Fish Crow	-	9	-		2	-	-	-	-	11
Common Raven	-	-	26		-	-	-	-	-	26
Horned Lark	-	-	-		-	1	-	-	-	1
Purple Martin	-	-	1		-	-	-	-	-	1
Tree Swallow	-	13	163		244	-	2	-	-	422
Northern Rough-winged Swallow	3	18	-		-	1	6	36	18	82
Cliff Swallow	-	-	-		2	15	-	-	-	17
Barn Swallow	1	7	1		244	1	-	10	2	266
Carolina Chickadee	58	129	152		53	6	174	78	28	678
Tufted Titmouse	34	96	124		37	9	121	122	42	585
Red-breasted Nuthatch	-	1	12		-	-	-	-	-	13
White-breasted Nuthatch	30	28	36		24	1	46	13	28	206
Brown-headed Nuthatch	1	9	-		3	-	-	-	-	13
Brown Creeper	-	-	5		-	-	-	-	-	5
House Wren	1	2	3		2	-	2	1	-	11
Sedge Wren	-	-	-		-	1	-	-	-	1
Marsh Wren	-	-	-		-	-	1	-	-	1
Carolina Wren	50	151	139		120	2	127	73	38	700
Blue-gray Gnatcatcher	-	3	2		2	1	1	8	2	19
Golden-crowned Kinglet	-	-	23		-	-	-	-	-	23

Counties	Anderson	Blount	Elizabethton	Knox	Loudon	Montgomery	Nashville	Perry	Shelby	Totals
Ruby-crowned Kinglet	-	-	5		-	-	-	2	-	7
Eastern Bluebird	31	107	91		133	6	88	75	26	557
Veery	3	1	4		-	-	4	18	-	30
Gray-cheeked Thrush	4	-	6		-	-	5	29	-	44
Swainson's Thrush	29	11	89		-	-	81	77	15	302
Hermit Thrush	-	-	1		-	-	-	-	-	1
Wood Thrush	20	7	16		1	-	6	26	3	79
American Robin	2	178	343		47	33	83	30	34	750
Gray Catbird	8	43	48		-	1	26	14	4	144
Brown Thrasher	10	27	14		6	4	39	10	5	115
Northern Mockingbird	11	74	54		61	1	66	43	25	335
European Starling	67	146	426		585	279	330	91	85	2009
Cedar Waxwing	98	44	506		10	28	68	40	-	794
House Sparrow	5	15	38		28	11	44	24	18	183
House Finch	11	54	51		132	8	60	13	12	341
Red Crossbill	-	-	2		-	-	-	-	-	2
Pine Siskin	-	-	10		-	-	-	-	-	10
American Goldfinch	29	112	231		37	14	85	21	8	537
Ovenbird	2	-	4		-	-	-	4	-	10
Worm-eating Warbler	-	-	1		-	-	-	6	-	7
Northern Waterthrush	-	2	1		-	-	-	5	-	8
Golden-winged Warbler	-	-	-		-	-	2	7	-	9
Blue-winged Warbler	1	-	-		-	-	4	7	-	12
Black-and-white Warbler	3	-	4		2	-	5	8	3	25
Prothonotary Warbler	-	-	-		-	-	-	2	2	4
Tennessee Warbler	3	-	12		1	-	28	165	3	212
Orange-crowned Warbler	-	-	1		-	-	-	-	-	1
Nashville Warbler	-	-	-		-	-	-	2	-	2
Mourning Warbler	-	-	-		-	-	-	2	-	2

Counties	Anderson	Blount	Elizabethton	Knox	Loudon	Montgomery	Nashville	Perry	Shelby	Totals
Kentucky Warbler	-	-	-		-	-	-	4	-	4
Common Yellowthroat	2	9	10		-	4	14	45	5	89
Hooded Warbler	7	5	4		-	-	1	9	1	27
American Redstart	7	7	13		-	-	29	21	3	80
Cape May Warbler	4	1	7		-	-	-	-	-	12
Cerulean Warbler	-	-	-		-	-	-	-	1	1
Northern Parula	2	-	3		1	-	4	30	16	56
Magnolia Warbler	19	14	11		1	-	74	156	5	280
Bay-breasted Warbler	2	-	6		-	-	3	2	-	13
Blackburnian Warbler	-	2	3		-	-	1	-	-	6
Yellow Warbler	-	2	-		-	1	1	3	-	7
Chestnut-sided Warbler	9	2	2		1	-	8	31	3	56
Black-throated Blue Warbler	-	-	3		-	-	-	-	-	3
Palm Warbler	1	9	16		16	2	-	9	-	53
Pine Warbler	-	18	11		1	-	1	21	-	52
Yellow-rumped Warbler	-	-	2		-	-	1	-	-	3
Yellow-throated Warbler	-	2	2		1	-	4	3	3	15
Prairie Warbler	-	-	1		-	2	5	5	-	13
Black-throated Green Warbler	4	-	8		-	-	7	6	5	30
Canada Warbler	1	-	-		-	-	-	-	-	1
Wilson's Warbler	-	-	-		-	-	1	4	-	5
Yellow-breasted Chat	-	-	-		-	1	1	1	-	3
Eastern Towhee	13	14	65		14	2	45	6	16	175
Chipping Sparrow	8	15	24		53	3	8	104	22	237
Field Sparrow	3	26	11		1	-	23	13	-	77
Henslow's Sparrow	-	-	-		-	1	-	-	-	1
Song Sparrow	5	13	83		6	-	4	-	-	111
Lincoln's Sparrow	-	-	-		-	-	-	2	-	2
Dark-eyed Junco	-	-	95		-	-	-	-	-	95

Counties	Anderson	Blount	Elizabethton	Knox	Loudon	Montgomery	Nashville	Perry	Shelby	Totals
Summer Tanager	3	2	2		-	4	33	42	7	93
Scarlet Tanager	8	6	15		2	2	8	15	13	69
Northern Cardinal	43	118	138		85	12	148	179	59	782
Rose-breasted Grosbeak	16	2	43		-	-	17	75	1	154
Blue Grosbeak	-	9	-		1	1	1	10	2	24
Indigo Bunting	7	158	13		14	4	31	429	62	718
Dickcissel	-	-	-		-	1	-	-	-	1
Bobolink	-	-	-		-	31	-	-	-	31
Red-winged Blackbird	2	2643	61		-	60	10	-	14	2790
Eastern Meadowlark	8	-	10		27	1	31	11	1	89
Common Grackle	-	134	156		63	-	507	1	33	894
Brown-headed Cowbird	-	211	-		1	-	-	1	19	232
Orchard Oriole	-	-	-		-	-	-	1	-	1
Baltimore Oriole	-	2	-		-	-	-	1	-	3
Total individuals	1276	6888	7520		3642	676	4630	6491	4894	36017
Total species	92	100	125		79	61	113	118	102	181
Observers	9	22	39		17	2	37	7	11	144
Parties	4	13	8		7	2	10	4	6	54
Party hours	17.8	68.84	74		28.5	6.25	58.38	-	31	284.77
Hours by car	7.75	21.28	-		22	2.25	21.28	-	10	84.56
Hours by foot	10.05	47.56	-		6.5	4	37.1	-	21	126.21
Hours by boat or other	-	-	-		-	-	-	-	-	-
Miles by car	71	286.1	-		126.5	38	296.5	-	75.5	893.6
Miles by foot	6.35	29.55	-		7.5	1	31	-	14	89.4
Miles by canoe or other	-	-	-		-	-	-	-	-	-
Hours owling	1.17	3.66	5.5		-	1	5.33	-	0.5	17.16
Miles owling	2	0.25	-		-	-	7.5	-	0.5	10.25
Feeder/yard watch observers	3	9	2		10	2	-	-	-	26
Feeder/yard watch hours	5	3.72	-		9.25	1.5	-	-	-	19.47

MINUTES OF THE FALL TOS BOARD OF DIRECTORS MEETING

1 October, 2016
David Crockett State Park
Lawrenceburg, Tennessee

The Fall meeting was held Saturday, 1 October, 2016 at David Crockett State Park, Lawrenceburg, Tennessee and was hosted by the Buffalo River Chapter of the Tennessee Ornithological Society. Field trips were offered to Laurel Hill Lake, David Crockett State Park and the Natchez Trace.

President Steve Routledge (NTOS) called the meeting to order at 2:04 pm. Secretary Cyndi Routledge (NTOS) determined there was a quorum. The minutes of the Spring 2016 meeting were approved as read. President Steve Routledge (NTOS) extended thanks to the Buffalo River Chapter for hosting the meeting.

REPORTS OF OFFICERS, DIRECTORS-AT-LARGE and PUBLICATIONS

TREASURER: Mac McWhirter (MTOS) gave an update on the investments of the Society. Starting calendar year 2016 at $307,000, the fund market value has grown to $329,400 in September. In the past month $7,500 was transferred to the operating bank account to pay for future publishing of *The Migrant*. The balance is currently $322,000.

There were no other reports by officers and directors-at-large.

THE MIGRANT: Associate editor Susan McWhirter (MTOS) reported the 2015 issues are almost complete. Beginning with March 2016 the journal will return to its regular cover design instead of the historic design used for the anniversary issues. As always, articles and round table notes are needed.

THE TENNESSEE WARBLER: 31 October is the deadline for the upcoming issue. Please submit all information to the editor, Theresa Graham (MTOS).

TN-BIRD: After a long and extended illness TN-bird creator Wallace Coffey (Bristol) died 27 September, 2016. The Tennessee Ornithological Society extends sympathies to his daughter Janet Coffey, her family and his closest friends. Janet has requested that in lieu of flowers, donations be sent to Friends of Steele Creek Nature Center fund for the Nature Center expansion.

COMMITTEE REPORTS

TENNESSEE BIRD RECORDS COMMITTEE: Ruben Stoll (NTOS), Secretary, reported the committee met and voted to accept 8 records. These will be published in the September 2016 issue of *The Migrant.*

CONSERVATION POLICY COMMITTEE: co-chairs Dick Preston (MTOS) and Melinda Welton (NTOS) gave an update on the following:

- Memphis chapter members will meet with Shelby Farms Park officials in October regarding grassland management.
- Lands Unsuitable for Mining Petition – Expecting a ruling within the Obama Administration.
- Nashville TOS Chapter adopted and started a project with the American Bird Conservancy's (ABC) Cats Indoors and the Window Strike program with Metro Parks within Nashville as a showcase. There are hopes and plans to expand to Tennessee State Parks.
- The committee is looking into the idea of a Tennessee State Bird Alliance Conservation organization.
- Legislative lobbying for extermination of Double-crested Cormorants at Reelfoot Lake is on-going with strong push from area population.
- Buffalo River is sponsoring a Shrike-a-thon during this Fall meeting with funds to be donated to the Conservation and Research Fund.

FINANCE COMMITTEE: The new chairman is Dick Preston (MTOS). Susan Holliday (NTOS) rotated off the Finance Committee, and Pam Lasley (NTOS) has rotated onto the committee.

OLD BUSINESS

Discover Birds Activity Book – At the Fall 2015 meeting TOS previously approved to match any funds raised without designation of an amount. David Hanni of Tennessee Wildlife Resources Agency has pledged $5000 for the next printing of the activity book. A motion was made that we accept the $5000 from TWRA with the like motion that we expend $5000 matching funds upon acceptance. The motion passed unanimously. The book is being translated into Spanish. This version will be available on the TOS webpage in 2017.

NEW BUSINESS

Sandhill Crane hunt update – The US Fish and Wildlife Service comment period is 15 October – 15 November, 2016. Members are asked to comment individually and voice their opposition.

There have been requests for 100th Anniversary Patches; TOS member Bill Bridgeforth has researched this and found it can be done at a very reasonable price. A motion was made that we purchase one hundred 100th Anniversary patches. The motion passed unanimously.

Bob Hatcher Memorial Scholarship Fund – The 2016 recipient is Megan Hart of Clarksville, who attends Austin Peay State University. The official presentation will take place on 9 December, 2016 at the meeting of the TWRA Commissioners in Nashville.

President Steve Routledge reported that as of 3 June, 2016, TOS is a part of the Biodiversity Heritage Library. This is a consortium of major natural history museum libraries,

botanical libraries and research institutions that cooperate to digitize and make accessible the legacy of biodiversity literature. Over 2 million volumes of biodiversity literature have been collected covering 200 years. *The Migrant* and *The Tennessee Warbler* will be included in the library.

President Elect – President Routledge reported no one from the Memphis Chapter has accepted the nomination, and he has asked the nominating committee to look beyond west Tennessee. If needed, he will agree to continue as President for the next term.

Crab Orchard Wind Farm - Cyndi Routledge presented information on this project to the group as it presents a possible threat to migrating birds. A motion was made that we support and endorse the effort to collect hawk and eagle migration data from Millstone Mountain. Passed unanimously.

2017 Winter Meeting – Paris Landing State Park is suggested as the meeting location.

The 2017 Spring meeting will be held on 5 - 7 May in Knoxville. For the Fall meeting we are looking into the possibility of the Lebanon Chapter hosting.

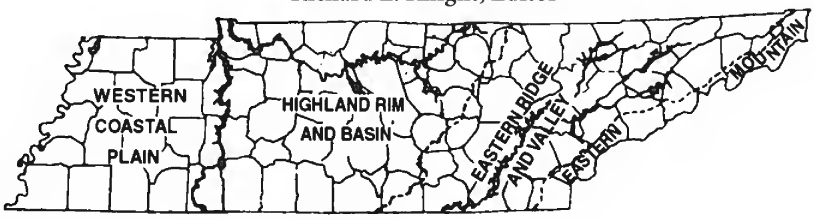
The meeting was adjourned at 4:06 pm.

Respectfully submitted,

Cyndi Routledge, Secretary

THE SUMMER SEASON

Richard L. Knight, Editor



1 June - 31 July 2016

Sweltering temperatures dominated the weather this summer, with above average readings statewide in June, July, and continuing into August. Rainfall varied considerably from one area to another, as it usually does this time of year due to the scattered nature of storms and showers. By season's end, areas across the southern portion of the state were experiencing drought conditions.

Black-bellied Whistling-Ducks in Middle Tennessee and a probable family group of Common Mergansers in East Tennessee were notable among waterfowl. A single Swallow-tailed Kite was reported in each of the two eastern regions, where most state sightings occur. The south-bound shorebird flight began well, highlighted by Ruff, Marbled Godwit, American Avocets, and Willets. A Pomarine Jaeger at Paris Landing was expected. Peregrine Falcons fledged young at a new nest site in the mountains. Local breeding specialties were monitored, such as Western Kingbirds in Shelby County, Bell's Vireos at Fort Campbell, and several high elevation species in the eastern mountains. A male Painted Bunting in Rutherford County delighted numerous birders.

Standard Abbreviations

ad - adult
Co - County
Cr - Creek
ers - earliest reported sighting
et al. - and others
fide - reported by
im - immature
L - Lake
lrs - latest reported sighting
max - maximum count
m.ob. - many observers
Mtn - Mountain
NWR - National Wildlife Refuge
R - River
SP - State Park
WMA - Wildlife Management Area
yg - young

WESTERN COASTAL PLAIN REGION - - The heat of summer is usually tough on both man and beast, and this year was no exception. June temperatures averaged 4 degrees above normal, while July came in a "mere" 2 degrees above historic norms. June was also drier than usual with rainfall off more than 2.5 inches region wide. However, July made up for that, recording just over 3.5 inches above normal.

Fewer birders spending less time in the field is expected during summer with a corresponding drop in reports received. In spite of the challenges, several interesting sightings were made. The best bird of the season was a Pomarine Jaeger at Paris Landing in Henry County. The T. E. Maxson Treatment Plant hosted a Ruff.

Duck - Tern: **Black-bellied Whistling-Duck**: 9 Jul (85) Ensley (RS, VS), max. **Anhinga**: 22 Jun (1, flying over) Decatur Co (RS, VS). **American Avocet**: 19 Jun (4) Ensley (Virginia Reynolds). **American Golden-Plover**: 30 Jul (1) TVA Lake, Shelby Co (RS, VS, AT), ers. **Semipalmated Plover**: 13 Jul (2) Ensley (RH, DDP), ers. **Greater Yellowlegs**: 13 Jul (7) Ensley (RH, DDP), ers. **Stilt Sandpiper**: 31 Jul (2) Ensley (VS, AT), ers. **Least Sandpiper**: 31 Jul (2500) Ensley (VS, AT), max. **White-rumped Sandpiper**: 12 Jun (1) Ensley (Virginia Reynolds), lrs. **Semipalmated Sandpiper**: 31 Jul (2100) Ensley (VS, AT), max. **Ruff**: 9 Jul (1) Ensley (RS, VS, photo). **Wilson's Phalarope**: 13 Jul (1) TVA Lake, Shelby Co (RH). **Pomarine Jaeger**: 30 Jul - 2 Aug (1 sub-adult) Paris Landing SP (RS, VS, AT, EB, m.ob.), 8th state record. **Laughing Gull**: 31 Jul (1) Paris Landing SP (Mark Greene, Mike Todd, m.ob.). **Herring Gull**: 30-31 Jul (1) Paris Landing SP (RS, VS, AT, EB, m.ob.). **Black Tern**: 18 Jun (1) Coon Valley Rd, Tipton Co (DDP).

Passerines: **Willow Flycatcher**: 22 Jun (1) Munford, Tipton Co (DDP). **Western Kingbird**: 20 Jun (8, with 3 nests) President's Island, Shelby Co (DDP); 31 Jul (8) North Treatment Plant, Shelby Co (RS, AT). **Brown Creeper**: 11 Jun (1) Memphis (Jim Ferguson, Sue Ferguson), lrs.

Locations: Ensley - Shelby Co; Paris Landing SP - Henry Co.

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HIGHLAND RIM AND BASIN REGION - - Weather for June had temperatures averaging 3.7 degrees above normal and slightly above normal precipitation. In July temperatures were 3.1 degrees above normal, and precipitation was 2.6 inches above normal. However, the rainfall total is a little misleading as northern counties received well above normal rain in July while southern counties experienced drought conditions. Regional highlights for June included Black-bellied Whistling-Duck, Mississippi Kite, Golden Eagle, Bell's Vireo, Bachman's Sparrow, and Painted Bunting. July brought Marbled Godwit, Mourning Warbler, and Blackburnian Warbler.

Duck - Coot: **Black-bellied Whistling-Duck**: 3 Jun (8) Beacon Light Rd, Warren Co (Stephen J. Stedman). **Blue-winged Teal**: 30 Jul (2) Cumberland R, Montgomery Co (RS, VS, AT, EB), ers. **Hooded Merganser**: 24 Jul (1) Pickwick Dam, Hardin Co (RS). **Common Loon**: 13 Jun (1) Edgar Evins SP, DeKalb Co (Mark Taylor); 17 Jun (1) Warren Co (Mac McWhirter, Susan McWhirter). **Pied-billed Grebe**: 8 Jul (1) Old Hickory Dam, Davidson Co (SZ), ers. **Anhinga**: 14 Jul (1) Little Richland Rd, Humphreys Co (Tennessee River

Data). **American White Pelican**: 3-25 Jul (15-85) Duck R Unit (Marjorie Dunham, RS, AT). **Great Egret**: 16 Jul (250) Duck R Unit (RS, AT), max. **Snowy Egret**: 7 Jul (1) Duck R Unit (RS, VS). **Little Blue Heron**: 4 Jul (3 im) Duck R Unit (RS, VS); 14 Jul (1 im) Fort Campbell (DMo); 31 Jul (2 im) White Co (Doug Downs). **Cattle Egret**: 4 Jul (1) Cannon Co (DSn). **Yellow-crowned Night-Heron**: 1 Jun (1 im) marsh on Walter S. Davis Blvd, Nashville (Frank Fekel); 17 Jun (1) Edgar Evins SP, DeKalb Co (Mark Taylor); 28 Jul (1) Maury Co (RS). **Osprey**: 20 Jun (64, including ad and large yg) Duck R Unit and adjacent areas, Humphreys and Benton Cos (RS, VS), max. **Mississippi Kite**: 1 Jun (1) Lawrence Co (VS); 10 Jun / 13 Jul (1) Clarksville, Montgomery Co (Stefan Woltmann); 2 / 5 Jul (4 / 2) Perry Co (RS, VS); 15 Jul (1) Dickson Co (Jim Peters); 30 Jul (6) Duck R Unit and vicinity (RS, VS). **Northern Harrier**: 2 Jul (1) DeKalb Co (Judy Fuson). **Sharp-shinned Hawk**: 19 Jun (1) Hidden Lake SP, Davidson Co (Josh Stevenson). **Golden Eagle**: 3 Jun (1) Morrison, Warren Co (Stephen J. Stedman). **American Coot**: 15-16 Jul (1) Cross Cr NWR, Stewart Co (Joe Hall); 22 Jul (1) Duck R Unit (RS, AT).

Plover - Tern: **American Golden-Plover**: 25 Jul (1) Duck R Unit (RS), ers. **Semipalmated Plover**: 14 Jul (1) Duck R Unit (RS), ers. **Greater Yellowlegs**: 7 Jul (7) Duck R Unit (RS, VS), ers. **Willet**: 7 Jul (6) Duck R Unit (RS, VS). **Lesser Yellowlegs**: 7 Jul (18) Duck R Unit (RS, VS), ers. **Marbled Godwit**: 7 Jul (1) Duck R Unit (RS, VS). **Stilt Sandpiper**: 7 Jul (1) Duck R Unit (RS, VS), ers. **Least Sandpiper**: 7 Jul (4) Duck R Unit (RS, VS), ers. **Pectoral Sandpiper**: 9 Jul (2) Duck R Unit (Allison Salas), ers. **Semipalmated Sandpiper**: 23 Jul (3) Duck R Unit (SZ et al.), ers. **Short-billed Dowitcher**: 7 Jul (6) Duck R Unit (RS, VS), ers. **Laughing Gull**: 30 Jul (1 im) Duck R Unit (RS, VS, AT, EB). **Herring Gull**: 22 Jul (1) Duck R Unit (RS, AT). **Caspian Tern**: 12 Jun (1) Duck R Unit (AT); 2 Jul (3) Radnor L, Davidson Co (Frank Fekel); 7-25 Jul (1-12) Duck R Unit (RS, VS). **Black Tern**: 14 Jul (1) Duck R Unit (RS), ers. **Common Tern**: 28 Jul (1) Pickwick Dam, Hardin Co (DJS). **Forster's Tern**: 7 Jul (1) Duck R Unit (RS, VS), ers.

Dove - Dickcissel: **Eurasian Collared-Dove**: 4 Jul (2) Cannon Co (DSn). **Barn Owl**: 21 Jul (1) Lincoln Co (Evan Buck); 29 Jul (1) Lawrence Co (DJS); 30 Jul (1) Montgomery Co (RS, VS, AT, EB). **Willow Flycatcher**: 1 Jun / 30 Jul (3 / 2) Fort Campbell (DMo, RS, VS, AT, EB); 6 Jun (1) Percy Priest WMA Field Trials Area, Rutherford Co (SZ, Graham Gerdeman, Josh Stevenson); 30 Jul (1) Cross Cr NWR, Stewart Co (RS, VS, AT, EB). **Scissor-tailed Flycatcher**: 18 Jun (1) Beaverdam WMA (RS, VS). **Bell's Vireo**: 4 Jun - 30 Jul (1-3) Fort Campbell (DMo, m.ob.); 15 / 27 Jun (1) Fort Campbell, Stewart Co (DMo). **Blue-headed Vireo**: 18 Jun (1) Beaverdam WMA (RS, VS). **Horned Lark**: 15 Jun (1) Fort Campbell, Stewart Co (DMo). **Sedge Wren**: 28 Jul (1) Savannah Bottoms, Hardin Co (DJS), ers. **Ovenbird**: 1 Jun (3) Fort Campbell, Stewart Co (DMo); 3 Jun (2) Wilson Co (Justin Nation). **Worm-eating Warbler**: 1 Jun (2) Fort Campbell, Stewart Co (DMo); 9 Jul (1) Davidson Co (SZ). **Black-and-white Warbler**: 13 Jun (1) Fort Campbell (DMo); 1 Jul (2) Shelby Park and Bottoms, Davidson Co (Dale Endres); 10 Jul (1) Lincoln Co (Evan Buck). **Mourning Warbler**: 29 Jul (1 im) Radnor L, Davidson Co (Jan Shaw), new early fall date in state. **Blackburnian Warbler**: 30 Jul (1) Fort Campbell (RS, VS, AT, EB), new early fall date in middle TN. **Yellow Warbler**: 1 Jun (1) Fort Campbell (DMo). **Bachman's Sparrow**: 14 Jun (pair, plus 1 ad with 2 yg) Beaverdam WMA (DJS), in large clearcut; 27 Jun (2) Fort Campbell, Stewart Co

(DMo). **Lark Sparrow**: 18 Jun (1) Marshall Co (DSn); 27 Jun (1) Fort Campbell, Stewart Co (DMo); 28 Jul (1) Savannah Bottoms, Hardin Co (DJS). **Grasshopper Sparrow**: 1 Jun (5) Fort Campbell (DMo); 27 Jun (8) Fort Campbell, Stewart Co (DMo). **Henslow's Sparrow**: 1 Jun (20) Fort Campbell (DMo); 15 Jun (6) Fort Campbell, Stewart Co (DMo). **PAINTED BUNTING**: 5-7 Jun (1 male) Percy Priest WMA Field Trials Area, Rutherford Co (David Arnold, m.ob., photo). **Dickcissel**: 27 Jun (20) Fort Campbell, Stewart Co (DMo); 7 Jul (17) Fort Campbell (DMo).

Locations: Beaverdam WMA - Hickman Co; Duck R Unit - unit of Tennessee NWR, Humphreys Co; Fort Campbell - Montgomery Co (unless specified otherwise).

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CUMBERLAND PLATEAU / RIDGE and VALLEY REGION - - Temperatures were above average in both months. Indeed, it was the second hottest July on record in the Tri-cities. Rainfall throughout was about half the normal amount. The southern portion of the region was experiencing drought conditions by season's end.

A group of ten female-type Common Mergansers probably represented a locally raised family. This species nested in the state in the late 1800s, but recent sightings in East Tennessee suggest a resurgence. Notable waders included a Wood Stork and an adult White Ibis, an age-class seldom seen in the state. Little Blue Herons were reported from seven sites, with an impressive count of 42 in Roane County. Least Bitterns observed at two Blount County sites in May (see spring report) and again this summer suggest local breeding. Additional highlights included Swallow-tailed Kite and Laughing Gull. Savannah Sparrows in Claiborne County probably represent an expansion of their breeding range.

Duck - Ibis: **American Wigeon**: from Mar thru 13 Jun (2) Leesburg, Washington Co, with one lingering thru 10 Aug (RLK), 2nd consecutive summer with one present, apparently same bird. **Green-winged Teal**: 24-29 Jul (1) Leesburg, Washington Co (RLK). **Common Merganser**: 9 Jul (10, female / im) Winged Deer Park, on Watauga R, Washington Co (RLK, m.ob.). **Pied-billed Grebe**: 13 Jun (1) Steele Cr Park, Sullivan Co (Larry McDaniel); 1 Jul (1) John Sevier L, Hawkins Co (SHu). **Wood Stork**: 2-9 Jul (1 im) Amnicola Marsh, Hamilton Co (Bruce Dralle, m.ob., photo), 2nd Hamilton Co record. **Least Bittern**: 28 Jun (1) Springfield Branch, Blount Co (Tom Howe); 21 Jul (1) Kyker Bottoms, Blount Co (Randy Winstead). **Great Egret**: 4 Jun / 22 Jul (20 / 160) Rankin Bottoms (Ron Shrieves / MBS), early max / late max. **Snowy Egret**: 14-19 Jul (1 im) Paddle Cr Pond, Sullivan Co (GDE, PGR, m.ob.); 31 Jul (4) Bowater ponds (RHk). **Little Blue Heron**: 24 Jun - 7 Jul (1-2 im) Amnicola Marsh, Hamilton Co (Bruce Dralle, m.ob.); 13 / 21 Jul (42 im / 21 im) Gupton Wetlands (MM, RS, VS, Tony King et al.); 17-30 Jul (1 im) Kingsport (Bill Grigsby, m.ob.); 22 Jul (6 im) Rankin Bottoms (MBS); 25 Jul (1 im) Seven Islands SP, Knox Co (MM); 27-28 Jul (1 im) south Knoxville (Jay Sturner, m.ob.); 29-31 Jul (1-4 im) Bowater ponds (RHk,

m.ob.). **Cattle Egret**: 6 Jun (1) McMinn Co (Kevin Calhoon); 13 / 21 Jul (24 / 35) Gupton Wetlands (MM, RS, VS, Tony King et al.). **Yellow-crowned Night-Heron**: 15-22 Jul (1-2) Bowater ponds (RHk, m.ob.). **White Ibis**: 13 Jul (1 ad, 1 im) Gupton Wetlands (MM, m.ob.), im lingered thru 21 Jul (Tony King et al.); 16-22 Jul (1 im) Bowater ponds (RHk, m.ob.).

Osprey - Owl: **Osprey**: 17 Jun (pair + 3 yg) Holston R, Hawkins Co (SHu); thru season (3 yg in nest, fledged late Jun or early Jul) Kingsport (Bill Grigsby, m.ob.), 1st successful nest in Co. **Swallow-tailed Kite**: late Jul (1) Oliver Springs airport, Anderson Co (Roger Kroodsma fide Dean Edwards), continued into Aug. **Northern Harrier**: 23 Jun (1) LMU Fields, Harrogate, Claiborne Co (DSn). **American Coot**: 5 / 12 Jul (2 / 1) John Sevier L, Hawkins Co (SHu); 8 Jul (1) Knoxville (Mark Campen); 13 Jul (4) Gupton Wetlands (MM); 26 Jul (1) Middlebrook L, Sullivan Co (RRK et al.). **Pectoral Sandpiper**: 13 Jul (1) Washington Co (RLK), new early fall date in NE TN. **Laughing Gull**: 3 Jul (2) Baker Island, Tennessee R, Rhea Co (Chris Agee). **Ring-billed Gull**: 17 Jul (12) Rankin Bottoms (MBS), ers. **Caspian Tern**: 17 Jul (1) Rankin Bottoms (MBS), ers. **Black Tern**: 13 Jul (1) Gupton Wetlands (MM), ers. **Forster's Tern**: 30 Jun (1) L Tansi, Cumberland Co (Ed LeGrand); 22 Jul (1) Rankin Bottoms (MBS). **Barn Owl**: 8 Jun / 17 Jul (2) Paddle Cr, Sullivan Co (RLK / GDE, PGR).

Crow - Dickcissel: **Fish Crow**: thru season (max 5 on 19 Jul) Kingsport (m.ob.); 9 Jul (4) Lowe's Ferry, Blount Co (Dean Edwards). **Common Raven**: 24 Jun (1) Fort Henry Dam, Kingsport (Bill Grigsby). **Tree Swallow**: 3 Jul (clutch hatched) Farragut, Knox Co (Dan Ellsworth), new late egg date in state. **Prothonotary Warbler**: 4 Jun (10) Rankin Bottoms (Ron Shrieves). **Savannah Sparrow**: 23 Jun (2+, singing) LMU Fields, Harrogate, Claiborne Co (DSn); 24 Jul (2) Conklin, Washington Co (RLK), regular summer site. **Dickcissel**: 8 Jun (2 males) near Kyker Ferry Rd, Sevier Co (Keith Watson); 19 Jun (1) south of Rogersville, Hawkins Co (SHu); thru 29 Jun (4+ at 3 sites) Washington Co (RLK, GDE, RRK).

Addendum: **Osprey**: 8 Apr 2010 (82, with ~ 40 nests) Tennessee R and Hiwassee R, from Chattanooga thru Meigs Co to Bradley Co (RHk, Dave Anderson), new high count for state.

Locations: Bowater ponds - McMinn Co; Gupton Wetlands - Roane Co; Kingsport - Sullivan Co; Rankin Bottoms - Cocke Co.

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EASTERN MOUNTAIN REGION - - It was an extremely hot summer. Average temperatures were 4 degrees above normal for the period. For the two months, there were 29 days above 90 degrees at the lower elevations. Precipitation was 5 inches below normal for the period.

Nesting Peregrine Falcons fledged three young in Carter County. A Ruby-crowned Kinglet was an unusual find in the Smokies. Red Crossbills appeared at several locations this summer.

Bobwhite - Falcon: **Northern Bobwhite**: 7 Jun (2) Quarry Bog in Shady Valley, Johnson Co (Joe McGuiness); 12 Jun (1) Limestone Cove, Unicoi Co (GDE, RRK, PGR, RPL). **Common Loon**: 26 Jul (1) South Holston L (RRK, Gil Derouen, Kathy Noblet, Jim Anderson). **Little Blue Heron**: 18 Jul (1 im) Laurel L, Blount Co (Randy Winstead). **Swallow-tailed Kite**: 6 Jul (1) Newfound Gap, GSMNP (MM, photo). **Red-shouldered Hawk**: 1 Jun (1) Roan Mtn (GDE, PGR); 12 Jun (1) Unicoi Co (Kim Stroud et al.); 18 Jun (1) Elizabethton (Tom McNeil). **Willet**: 13 Jul (1) South Holston L (Mike Sanders). **American Woodcock**: 9 Jun (1) Schoolhouse Gap, GSMNP (Randy Winstead). **Forster's Tern**: 14 Jul (1) South Holston L (GDE, PGR), ers. **Northern Saw-whet Owl**: 13 Jun (1) Walnut Mtn, Carter Co (Joe McGuiness, Kim Stroud, RRK, et al.). **Yellow-bellied Sapsucker**: 12 Jun (2) Iron Mtn Gap, Unicoi Co (Brookie Potter, Jean Potter); 12 Jun (1) Unaka Mtn (GDE, RRK, PGR, RPL). **Peregrine Falcon**: 10 / 17 Jun (pair with 3 fledged yg) Doe R Gorge, Carter Co (PGR, RLK), first modern breeding record in northeast TN; 17 Jul (1) Mt. LeConte, GSMNP (Kent Bedenbaugh)

Flycatcher - Siskin: **Alder Flycatcher**: thru season (4+) Roan Mtn (RLK). **Ruby-crowned Kinglet**: 3 Jul (1) Clingman's Dome, GSMNP (Nate Swick), seen and heard singing. **Hermit Thrush**: thru season (4+) Roan Mtn (RLK), with 2 fledged yg on 23 Jul (William Johnson, photo); 12 / 20 Jun (3 / 1) Unaka Mtn (RPL, PGR / RLK). **Magnolia Warbler**: 1-18 Jun (3-5) Roan Mtn (RLK, m.ob.); 12 Jun (2) Unaka Mtn (GDE, RRK, PGR, RPL). **Yellow-rumped Warbler**: 14 Jun (1 male) Roan Mtn (RLK). **Canada Warbler**: 23 Jul (1, banded) Holston Valley, Sullivan Co (RPL), early arrival in lowlands. **Vesper Sparrow**: 26 May thru season (1-2) Round Bald on Roan Mtn (RLK, m.ob.). **Savannah Sparrow**: 25 May (1) Orchard Bog in Shady Valley, Johnson Co (RLK). **Dark-eyed Junco**: 12 Jun (2) Rocky Fork SP, Unicoi Co (RLK), at 2400 ft elevation in deep gorge. **Red Crossbill**: 12 Jun (2) Granny Lewis Cr, Unicoi Co (Tom McNeil); 12 / 20 Jun (1 / 7) Unaka Mtn (GDE, RRK, PGR, RPL / RLK); 23 Jul (5) Big Bald Mtn, Unicoi Co (Kirk Gardner); several reports for GSMNP. **Pine Siskin**: 26 May (2) Carver's Gap on Roan Mtn (RLK); 7 / 21 Jun (2 / 1) Roan Mtn, at 4450 ft (RRK et al.).

Locations: GSMNP - Great Smoky Mtns National Park; Roan Mtn - Carter Co; South Holston L - Sullivan Co; Unaka Mtn - Unicoi Co.

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Observers

EB - Evan Beachy
GDE - Glen D. Eller
RH - Rob Harbin
RHk - Rick Houlk
SHu - Susan Hubley
RLK - Richard L. Knight
RRK - Roy R. Knispel
RPL - Richard P. Lewis
MM - Morton Massey
DMo - Daniel Moss
DDP - Dick D. Preston
PGR - Peter G. Range
DJS - Damien J. Simbeck
MBS - Michael B. Sledjeski
DSn - Dan Snell
RS - Ruben Stoll
VS - Victor Stoll
AT - Alan Troyer
SZ - Stephen Zipperer

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